

COB - BOSAIR FORM

09/18/2025 9:10 AM (MST)

Submitted by Sabrina.Walker@pima.gov



BOARD OF SUPERVISORS AGENDA ITEM REPORT (BOSAIR)

\*All fields are required. Enter N/A if not applicable. For number fields, enter 0 if not applicable.\*

Record Number: PO PDC PO2400007958

Award Type:	Contract
Is a Board Meeting Date Requested?	Yes
Requested Board Meeting Date:	10/14/2025
Signature Only:	NO
Procurement Director Award / Delegated Award:	<ul style="list-style-type: none"><li>N/A</li></ul>
Supplier / Customer / Grantor / Subrecipient:	HDR Engineering, Inc.
Project Title / Description:	Design Engineering Services For: Madera Canyon, Medium Wash Bridge Replacement (4MADMB) and Madera Canyon, Florida Canyon Wash Bridge Replacement (4MADFL)
Purpose:	Amendment: Contract No. PO2400007958, Amendment No. 2. This amendment extends the term of the Contract to 3/31/29 to incorporate additional temporary construction easements and right of way delineations, and to allow for post-design services during the construction phase, and increases the contract amount by \$99,895.02 for a cumulative not-to-exceed amount of \$1,569,446.15. Administering Department: Project Design and Construction.
Procurement Method:	Other
Insert additional Procurement Method info, if applicable:	<p>Pursuant to Solicitation for Qualifications No. RFQu-24000075, the Board of Supervisors awarded a contract for this Project in a not-to-exceed amount of \$1,469,551.13 for a contract term from 10/14/24 to 10/14/27.</p> <p>Amendment No. 1, was approved by the Procurement Director, on 05/14/25, to replace the proposal from subconsultant Wheat Design Group with the proposal from J2 Engineering &amp; Environmental Design, L.L.C. due to a legal name change by acquisition, effective March 27, 2025.</p> <p>Attachment: Amendment No. 2.</p>
Program Goals/Predicted Outcomes:	Madera Canyon Road, as a Scenic Corridor, provides recreational access to the Madera Canyon Recreation area. It also is the only access for lodging and residences within this area. The road is two-lanes except where it is restricted in three locations to single-lane traffic. Two of these locations are the bridges at Medium Wash and Florida Canyon Wash. Between both bridges is a single-lane culvert crossing which is not eligible for OSB funding, and therefore not contained in

the scope of work. The existing bridges were built in mid-1930's by the Civilian Conservation Corps and have since aged to a point where they are scour critical and must be replaced. The public benefit with these projects will improve access with less restrictions caused by the single-lane-bridges. Additionally, the failing bridges will be replaced with a two-lane-bridge, further contributing to the health, safety, and welfare of the constituents using this roadway for life, work, and play needs.

Public Benefit and Impact:	The goal of these projects is to replace the Florida Canyon Wash and Medium Wash bridges with 2-lane structures meeting all current regulatory agency standards. A secondary goal will be to maintain full access to the Madera Canyon Recreation area for businesses, users, and residents, during construction of the new bridges. The project will repurpose abandoned dirt roads to define a temporary by-pass road to safely route traffic around the work area and provide physical separation between traffic and construction.	
Budget Pillar	• Critical infrastructure & economic growth	
Support of Prosperity Initiative:	N/A	
Provide information that explains how this activity supports the selected Prosperity Initiative	N/A	
Metrics Available to Measure Performance:	Consultant and Contractor performance evaluations will be used to measure compliance with the project's scope, schedule, and budget. This assessment will determine if the work was satisfactorily delivered in a manner that meets expectations defined in the program goals.	
Retroactive:	NO	

Amendment / Revised Award Information

Record Number: PO PDC PO2400007958

Document Type:	PO	
Department Code:	PDC	
Contract Number:	PO2400007958	
Amendment Number:	2	
Commencement Date:	10/14/2025	
Termination Date:	03/31/2029	
Is the Termination Date new?	YES	
Classification:	Expense	
Adjust Level:	Increase	
Prior Contract Number (If	N/A	

Amount This Amendment:

\$99,895.02

**Funding Source(s) required:** U.S. Department of Transportation Federal Highway Administration (FHWA) Off System Bridge (OSB) Funds 93.64%  
Pima County Highway User Revenue Funds (HURF) 6.36%

**Funding from General Fund?**

NO

**Contract is fully or partially funded with Federal Funds?**

YES

**If Yes, is the Contract to a supplier or subrecipient?** Supplier

**Enter CFDA #** 20.205

**and FAIN #** Medium Wash Bridge 693JJ22430000Y120AZPPM0274; Florida Wash Bridge 693JJ22430000Y120AZPPM73

**Associated AmpliFund Grant Record ID#** Medium Wash Bridge 70008; Florida Wash Bridge 70007

**Advantage Initial GTAW# (If Applicable):** N/A

**Department:** Procurement

**Name:** Judy Cooper *JC*

**Telephone:** 520-724-3727

**Add GMI Department Signatures**

No

**Division Manager/Procurement Officer Signature:** Scott Loomis Digitally signed by Scott Loomis  
Date: 2025.09.19 15:50:35 -07'00' Date: \_\_\_\_\_

**Procurement Director Signature:** Bruce D Collins Digitally signed by Bruce D Collins  
Date: 2025.09.22 11:01:58 -07'00' Date: \_\_\_\_\_

**Department Director Signature:** \_\_\_\_\_ Signed by: *[Signature]* Date: 9/23/2025  
FB1FE9E74A344B7...

**Deputy County Administrator Signature:** *[Signature]* Date: 9/23/2025

**County Administrator Signature:** *[Signature]* Date: 9/23/2025

**PIMA COUNTY PROJECT DESIGN AND CONSTRUCTION DEPARTMENT**

**PROJECT:** Design Engineering Services For: Madera Canyon, Medium Wash Bridge Replacement (4MADMB) and Madera Canyon, Florida Canyon Wash Bridge Replacement (4MADFL)

**CONSULTANT:** HDR Engineering, Inc.  
1 South Church Avenue, Suite 1400  
Tucson, AZ 85701

**CONTRACT NO.:** PO2400007958

**AMENDMENT NO:** 2

**FUNDING:** U.S. Department of Transportation Federal Highway Administration (FHWA) Off System Bridge (OSB) Funds 93.64%  
Pima County Highway User Revenue Funds (HURF) 6.36%

<b>CONTRACT TERM:</b> 10/15/24 - 10/14/27	<b>ORIGINAL CONTRACT AMOUNT:</b>	\$	1,469,551.13
<b>TERMINATION PRIOR AMENDMENT:</b> 10/14/27	<b>PRIOR AMENDMENT(S):</b>	\$	-
<b>TERMINATION THIS AMENDMENT:</b> 03/31/29	<b>AMOUNT THIS AMENDMENT:</b>	\$	99,895.02
	<b>REVISED CONTRACT AMOUNT:</b>	\$	1,569,446.15

**CONTRACT AMENDMENT**

**WHEREAS**, COUNTY and CONSULTANT have entered into the Contract referenced above; and

**WHEREAS**, COUNTY intends to extend the term of the Contract to 03/31/29 to incorporate additional temporary construction easements and right of way delineations, and to allow for post-design services during the construction phase, and increase the contract amount by \$99,895.02 for a cumulative not-to-exceed amount of \$1,569,446.15; and

**WHEREAS**, COUNTY and CONSULTANT have agreed to the modifications.

**NOW, THEREFORE**, it is agreed as follows:

**CHANGE:** **ARTICLE 1 – TERM AND EXTENSION/RENEWAL/CHANGES**, 1<sup>st</sup> paragraph, 1<sup>st</sup> sentence, as follows:

**FROM:** “This Contract, as approved by the Board of Supervisors, commences on October 15, 2024, and terminates on October 14, 2027...”

**TO:** “This Contract, as approved by the Board of Supervisors, commences on October 15, 2024, and terminates on March 31, 2029...”

**CHANGE:** **ARTICLE 2 – SCOPE OF SERVICES**, 1<sup>st</sup> paragraph, 1<sup>st</sup> sentence, as follows:

**FROM:** “CONSULTANT agrees to provide design engineering services for the COUNTY as described in EXHIBIT “A” –SCOPE OF SERVICES...”

**TO:** “CONSULTANT agrees to provide design engineering services for the COUNTY as described in EXHIBIT “A” –SCOPE OF SERVICES and **EXHIBIT “A-1” –SCOPE OF SERVICES (16 pages)**..”

**CHANGE:** **ARTICLE 4 – COMPENSATION AND PAYMENT**, 2<sup>nd</sup> paragraph, 1<sup>st</sup> sentence, as follows:

**FROM:** “CONSULTANT’s total CPFF will be allocated among the major tasks contemplated by this Contract in such manner that each major deliverable will have associated with it a not-to-exceed cost, plus a fixed fee amount, incorporated herein as EXHIBIT “B” – COMPENSATION SCHEDULE and EXHIBIT “B-1” – COMPENSATION SCHEDULE.”

**TO:** "CONSULTANT's total CPFF will be allocated among the major tasks contemplated by this Contract in such manner that each major deliverable will have associated with it a not-to-exceed cost, plus a fixed fee amount, incorporated herein as EXHIBIT "B" – COMPENSATION SCHEDULE, EXHIBIT "B-1" – COMPENSATION SCHEDULE, and **EXHIBIT "B-2" – COMPENSATION SCHEDULE (8 PAGES)"**

**ATTACH: EXHIBIT "A-1" SCOPE OF SERVICES (16 pages)**  
**EXHIBIT "B-2" – COMPENSATION SCHEDULE (8 pages)**

All other provisions of the Contract, not specifically changed by this Amendment, shall remain in effect and be binding upon the Parties.

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IN WITNESS WHEREOF, the Parties have affixed their signatures to this Amendment on the dates written below.

PIMA COUNTY:

\_\_\_\_\_  
Board of Supervisors

\_\_\_\_\_  
Date

CONSULTANT:



\_\_\_\_\_  
Signature

\_\_\_\_\_  
Jason Fort, P.E., Vice President, Area Manager  
Name and Title (Please Print)

\_\_\_\_\_  
9/23/2025  
Date

ATTEST:

\_\_\_\_\_  
Clerk of the Board

\_\_\_\_\_  
Date

This contract template has been approved as to form by the Pima County Attorney's Office.





**SCOPE OF DESIGN WORK FOR THE  
MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (CTR.4MADMB)  
FEDERAL ID PPM-0(274) D  
ADOT TRACS NO. T0541 01D/03D**

August 25, 2025

Mr. Joshua Orth  
Project Manager, PLA  
Pima County Project Design and Construction  
150 W. Congress Street, 3<sup>rd</sup> Floor  
Tucson, AZ 85701

RE: Design Engineering Services for Madera Canyon, Medium Wash Bridge Replacement (Pima County Project No. 4MADBR, ADOT Project No. T0541 03D) and Madera Canyon, Florida Canyon Wash Bridge Replacement (Pima County Project No. 4MADFL, ADOT Project No. T0540 03D)  
Contract Amendment 2 – ROW Plans, Additional ROW, TCE, & Abandonment Delineations

Dear Mr. Orth:

As the design has progressed on the two Madera Canyon Road Bridge Replacement Projects (Medium Wash - 4MADBR, and Florida Canyon Wash - 4MADFL), it has been identified that changes need to be made to HDR's scope of work. These changes include new right-of-way (ROW) that will need to be acquired, additional temporary construction easements (TCEs), added ROW abandonment areas, additional supplemental field surveys, added ROW plan sheets, and additional coordination with the Arizona State Land Department (ASLD) and Pima County. Since this additional work was not anticipated or included in HDR's scope of work, we are requesting a contract amendment to increase our cost-plus-fixed-fee contract amount to include this work. Below is a detailed description of the additional work required for this contract amendment.

1. **Project Management (Task A.1):** This task includes additional project management required to include the additional legal descriptions and ROW plans into the project. It includes time for additional coordination between design disciplines, additional meetings, internal project reviews, managing staff, budget tracking and progress reports. It is anticipated that while the design will be substantially complete in November of 2025, HDR's services will be required until construction authorization is obtained between March to May of 2026, which adds an additional five to seven months of project coordination prior to the project being advertised for bids. Currently, HDR has used approximately 90% of their project management budget. This task is expected to help HDR manage the project through construction authorization in March to May of 2026, though additional resources may be required depending on the level of engagement and support needed.
2. **Utility Coordination (Task A.5):** HDR's scope of work included providing utility coordination services focusing on the two known public utility companies within the project limits, namely Trico Electric and Lumen Communications. As the design has progressed, it has been



determined that there are existing private waterlines that need to be relocated prior to construction or protected during construction and the design team will need to coordinate and detail this effort. The private waterlines belong to the Santa Rita Ranch and cross Madera Canyon Road and cross the Medium Wash and Florida Canyon Washes. HDR will meet with the Santa Rita Ranch staff regarding the waterlines, identify and resolve conflicts, identify potential locations to install sleeves through the bridge approach roadways for the waterlines to be relocated, provide details for the sleeves on the plan sheets, and include requirements in the special provisions. It is anticipated that the waterlines will be moved by the Santa Rita Ranch personnel prior to or during construction, however, the installation of sleeves will be the responsibility of the county's construction contractor.

3. **New TCE and ROW Delineation (Tasks A.7 & A.15):** HDR's current scope of work (Task A.7.11) includes the preparation of four legal descriptions, two for each bridge project. These include two legal descriptions for new ROW for the gaps between the original 66-foot ROW and that acquired from a previous project and two legal descriptions for TCEs for each project's detour (one for each project). Additionally, it has been identified that new ROW and new TCEs are required to build and maintain the newly widened roadway. Two additional TCEs and one area of ROW abandonment are needed for the Florida Canyon Wash bridge project and additionally one TCE, one area of new ROW, and one area of ROW abandonment is needed for the Medium Wash Bridge project. The three TCEs are required along the east existing ROW near the washes for construction of cut slopes and installing fill slope erosion protection. The area of new ROW is located along the eastern side of Madera Canyon Road between existing ROW centerline station 238+60 to 242+70. This area of new ROW is needed to allow vertical curve flattening to increase stopping sight distance and to provide room to install erosion protection on the fill slope north of Medium Wash Bridge. The two areas of ROW abandonment are located along the west existing R/W at the washes to accommodate a land exchange with ASLD for the areas of new ROW. Incorporating these additional TCEs, ROW, and abandonment areas into the project will require the following tasks:

- **Legal Descriptions:** HDR will prepare six additional legal descriptions with exhibits for the needed new ROW, TCEs, and abandonment areas. The exhibits will be shown both with and without aerial backgrounds. HDR will prepare the preliminary legal descriptions for ASLD review and coordination. Upon ASLD approval, HDR will provide sealed legal descriptions for ASLD acquisitions. This task also includes additional research into the existing ROW documentation to assist with the preparation of the legal descriptions.
- **Plan Preparation:** HDR will show the new ROW, TCEs, and abandonment areas on the Geometric Layout Sheets that they have developed for each bridge project for use as ASLD Exhibits while the ROW plans are being prepared. HDR will incorporate review comments from the County and ASLD. HDR's subconsultant ALTA will be tasked with preparing the preliminary ROW plan sheets, final ROW plan sheets, and a sealed record of survey for the Pima County Recorder's Office. This work will include establishing up to 25 survey monuments, utilizing a 1/2-inch rebar with tag, along the east existing ROW at centerline control points, station equations, and vertices.



- **Supplemental Survey:** HDR's subconsultant, ALTA, will be tasked with conducting verification surveys to make sure the ROW monuments that are called out on the plan sheets are in place and are in the correct location for use as reference monuments in the legal descriptions. ALTA will also locate existing fences within the added acquisition areas.
- **Coordination:** HDR will provide additional coordination with ASLD and Pima County to assist the county with obtaining these acquisitions.

If you have questions or need additional information, please let me know.

Sincerely,

HDR Engineering, Inc.

A handwritten signature in blue ink that reads "Ted W. Buell".

Ted W. Buell, PE  
Structures Section Manager  
Project Manager

A handwritten signature in blue ink that reads "Jason Fort".

Jason Fort, PE  
Vice President, Area Manager



geotechnical

## PROPOSAL for PROFESSIONAL SURVEYING SERVICES

survey

Proposal No.: 241122 – Alta Contract Modification #1

environmental

Date: August 8, 2025

 special  
inspections

 Client: HDR, Inc.  
1 S Church Ave, #1400  
Tucson, AZ 85701

 material  
testing

 Project: **Madera Canyon – Alta Contract Modification #1 (Project Contract Amendment #2)**  
**Pima County**

Attention: Ted Buell

Alta Survey, LLC dba Alta Arizona, appreciates the opportunity to provide you with this proposal to provide professional survey services for the Madera Canyon project. Alta will utilize previous survey control and right-of-way information performed by Johnson Brittain/HDR for the Florida Canyon Wash and Medium Wash bridges. The following survey services will be provided by Alta Arizona (hereinafter referred to as "Alta"):

Phoenix

**MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (CTR.4MADBR)**

Tucson

**FEDERAL ID PPM-0(274) D / ADOT TRACS NO. T0541 01D/03D**

Florence

**MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (CTR.4MADFL)**

Sierra Vista

**FEDERAL ID PPM-0(273) D / ADOT TRACS NO. T0540 01D/03D**

### TASK A.7 SURVEY AND MAPPING

**Task A.7.8. Culture Surveys.** ALTA Survey, LLC will verify/locate fences within acquisition areas.

**Task A.7.9. Right-of-Way of Surveys.** ALTA Survey, LLC will perform additional verification surveys to search for controlling survey monuments including right-of-way centerline monuments, controlling right-of-way corners and existing occupation, to confirm the existing right-of-way lines and centerline. Verify the section corner of 10 11 15 & 14. Establish up to twenty-five (25) right-of-way monuments. Prepare new right-of-way plan sheets for new right-of-way, TCEs, and abandonment areas determined to be required to build and maintain the newly widened roadway.

#### **Deliverables:**

- Digital ASCII point files in comma delimited format.
- Field survey information
- Preliminary Right-of-Way Plans (Estimated 8 Sheets).
- Final sealed Right-of-Way Plans (Estimated 8 Sheets).
- Responses to all review comments.

 1800 W Broadway  
Rd  
Suite 5  
Tempe, AZ 85282

**MEDIUM WASH BRIDGE FEE**  
**FLORIDA CANYON WASH BRIDGE FEE**
**\$7,799.84**  
**\$7,799.84**

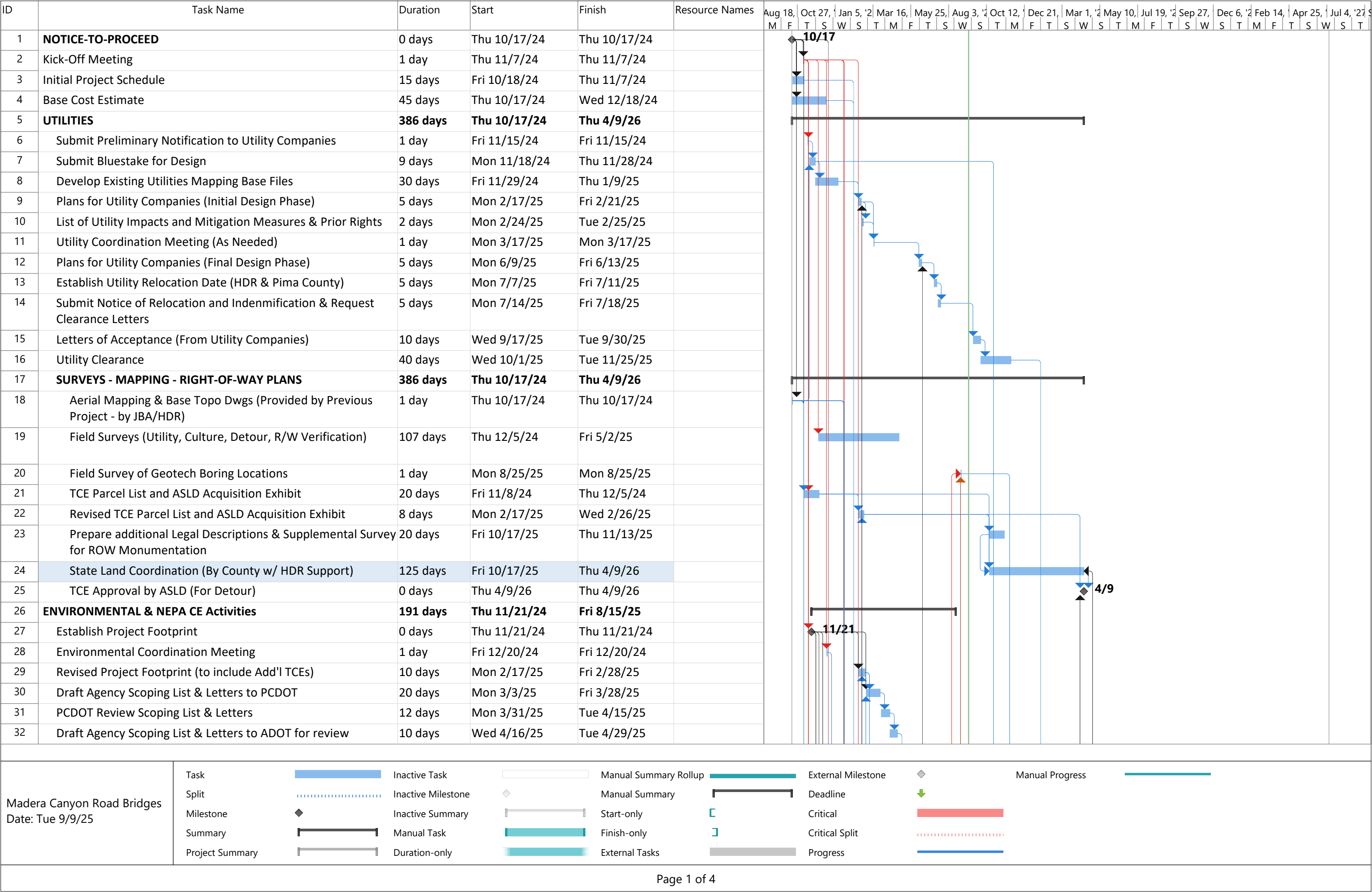
 2025 W Ruthrauff Rd  
Suite 125  
Tucson, AZ 85705

520.398.6651

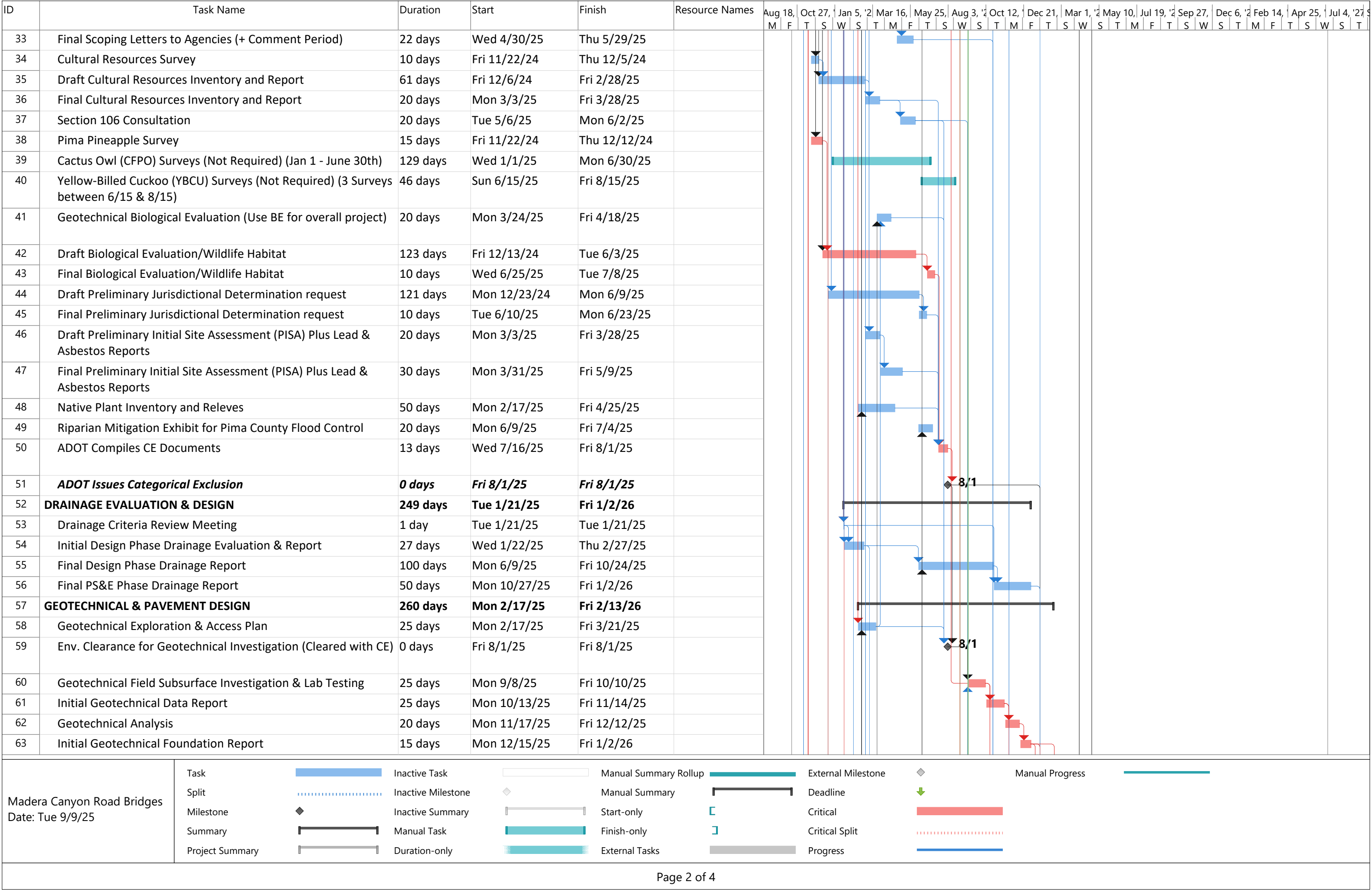
I hope that this proposal is responsive to your request in terms of services, fee and schedule. If you have any questions or concerns, please contact me at 520.398.6651 or at [patricia.gajda@altaei.com](mailto:patricia.gajda@altaei.com).

 Best regards,  
Alta Arizona

  
 Patricia Gajda, RLS  
 Survey Manager



Page 1 of 4



ID	Task Name	Duration	Start	Finish	Resource Names	Aug 18, '24	Oct 27, '24	Jan 5, '25	Mar 16, '25	May 25, '25	Aug 3, '25	Oct 12, '25	Dec 21, '25	Mar 1, '26	May 10, '26	Jul 19, '26	Sep 27, '26	Dec 6, '26	Feb 14, '27	Apr 25, '27	Jul 4, '27	Sep 12, '27
64	Final Geotechnical Data Report	23 days	Mon 11/17/25	Wed 12/17/25																		
65	Final Geotechnical Foundation Report	30 days	Mon 1/5/26	Fri 2/13/26																		
66	Pavement Design	218 days	Wed 1/22/25	Fri 11/21/25																		
67	Vehicle Classification Tube Counts	5 days	Wed 1/22/25	Tue 1/28/25																		
68	Preliminary Pavement Design Report and ESAL Calculations	10 days	Mon 10/13/25	Fri 10/24/25																		
69	Final Pavement Design Report	20 days	Mon 10/27/25	Fri 11/21/25																		
70	PROJECT ASSESSMENT	228 days	Fri 11/8/24	Tue 9/23/25																		
71	Prepare preliminary roadway plans	40 days	Fri 11/8/24	Thu 1/2/25																		
72	Prepare preliminary detour plans	40 days	Fri 11/8/24	Thu 1/2/25																		
73	Evaluate Bridge Structure Types	40 days	Fri 11/8/24	Thu 1/2/25																		
74	Cost Estimate for PA	31 days	Fri 1/3/25	Fri 2/14/25																		
75	Prepare Initial Project Assessment Report	40 days	Mon 12/23/24	Fri 2/14/25																		
76	Submit Initial PA (to PCDOT)	0 days	Fri 2/14/25	Fri 2/14/25																		
77	PCDOT Review of PA	15 days	Mon 2/17/25	Fri 3/7/25																		
78	Submit Revised Initial PA - for ADOT Review	35 days	Mon 3/10/25	Fri 4/25/25																		
79	ADOT Review of Initial PA	14 days	Mon 4/28/25	Thu 5/15/25																		
80	Submit Final PA	16 days	Fri 5/16/25	Fri 6/6/25																		
81	ADOT Review of Final PA	15 days	Wed 9/3/25	Tue 9/23/25																		
82	ADOT Approval of Final PA	0 days	Tue 9/23/25	Tue 9/23/25																		
83	PREPARATION OF CONSTRUCTION DOCUMENTS	352 days	Fri 11/8/24	Mon 3/16/26																		
84	Initial Design Phase Plans	86 days	Fri 11/8/24	Fri 3/7/25																		
85	Roadway Plans	35 days	Fri 11/8/24	Thu 12/26/24																		
86	Detour Plans	35 days	Fri 11/8/24	Thu 12/26/24																		
87	Bridge Plans	45 days	Fri 11/8/24	Thu 1/9/25																		
88	Submit Initial Design Phase Plans	0 days	Fri 2/14/25	Fri 2/14/25																		
89	PCDOT Review	15 days	Mon 2/17/25	Fri 3/7/25																		
90	Final Design Phase Plans	80 days	Mon 3/10/25	Fri 6/27/25																		
91	Roadway Plans	65 days	Mon 3/10/25	Fri 6/6/25																		
92	Detour Plans	65 days	Mon 3/10/25	Fri 6/6/25																		
93	Bridge Plans	65 days	Mon 3/10/25	Fri 6/6/25																		
94	Drainage Plans	65 days	Mon 3/10/25	Fri 6/6/25																		
95	Pavement Markings and Signing	65 days	Mon 3/10/25	Fri 6/6/25																		
96	Submit Final Design Phase Plans	0 days	Fri 6/6/25	Fri 6/6/25																		
97	PCDOT & ADOT Review	15 days	Mon 6/9/25	Fri 6/27/25																		
98	Initial PS&E Plans	105 days	Mon 6/30/25	Fri 11/21/25																		
99	Roadway Plans	67 days	Mon 6/30/25	Tue 9/30/25																		

Madera Canyon Road Bridges

Date: Tue 9/9/25

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

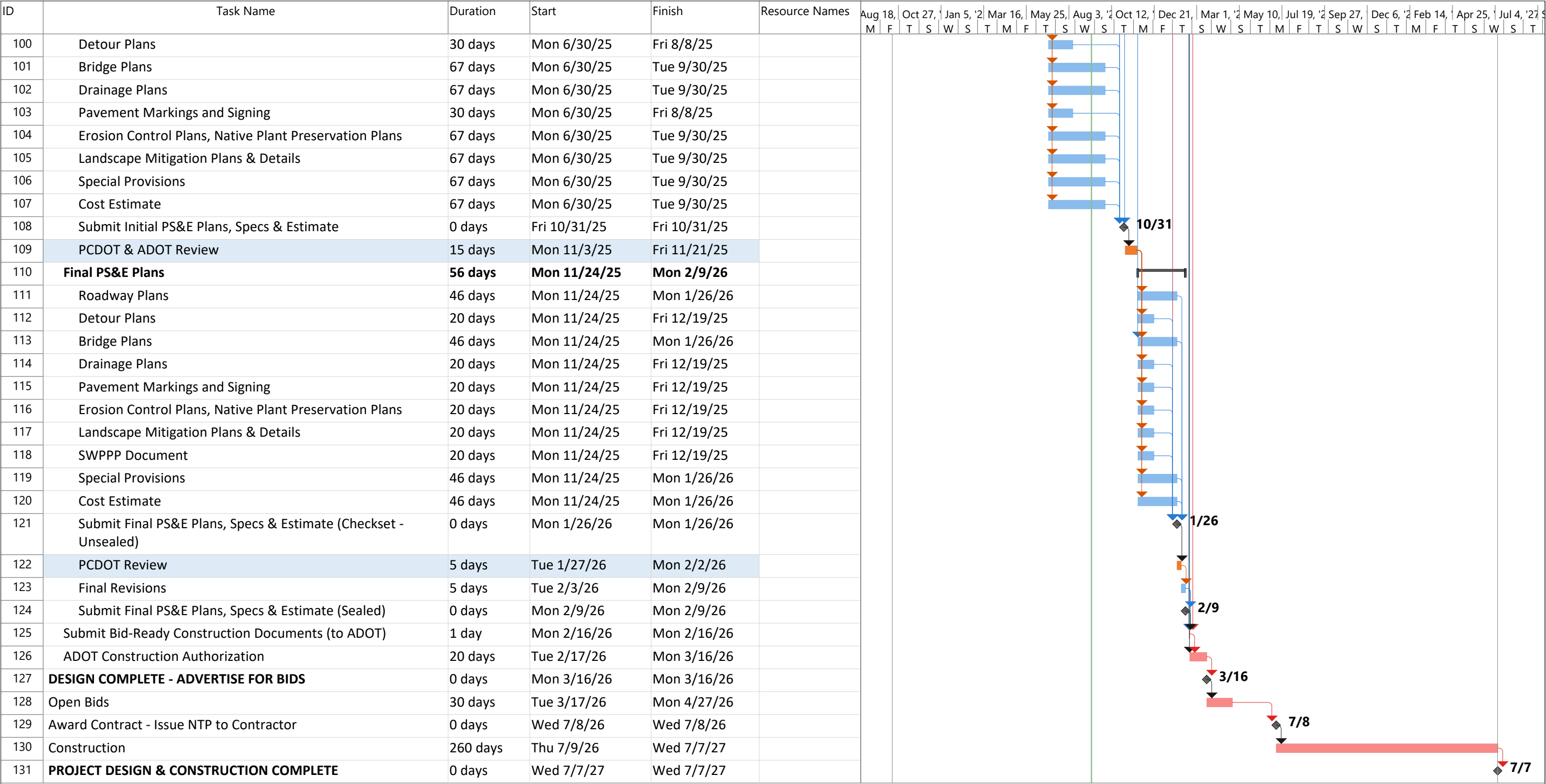
Critical

Critical Split

Progress

Manual Progress

Page 3 of 4



Madera Canyon Road Bridges  
Date: Tue 9/9/25

Task

Split

Milestone

Summary

Project Summary

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Inactive Summary

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**SCOPE OF DESIGN WORK FOR THE  
MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (CTR.4MADFL)  
FEDERAL ID PPM-0(273) D  
ADOT TRACS NO. T0540 01D/03D**

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Project Manager, PLA  
Pima County Project Design and Construction  
150 W. Congress Street, 3<sup>rd</sup> Floor  
Tucson, AZ 85701

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3. **New TCE and ROW Delineation (Tasks A.7 & A.15):** HDR's current scope of work (Task A.7.11) includes the preparation of four legal descriptions, two for each bridge project. These include two legal descriptions for new ROW for the gaps between the original 66-foot ROW and that acquired from a previous project and two legal descriptions for TCEs for each project's detour (one for each project). Additionally, it has been identified that new ROW and new TCEs are required to build and maintain the newly widened roadway. Two additional TCEs and one area of ROW abandonment are needed for the Florida Canyon Wash bridge project and additionally one TCE, one area of new ROW, and one area of ROW abandonment is needed for the Medium Wash Bridge project. The three TCEs are required along the east existing ROW near the washes for construction of cut slopes and installing fill slope erosion protection. The area of new ROW is located along the eastern side of Madera Canyon Road between existing ROW centerline station 238+60 to 242+70. This area of new ROW is needed to allow vertical curve flattening to increase stopping sight distance and to provide room to install erosion protection on the fill slope north of Medium Wash Bridge. The two areas of ROW abandonment are located along the west existing R/W at the washes to accommodate a land exchange with ASLD for the areas of new ROW. Incorporating these additional TCEs, ROW, and abandonment areas into the project will require the following tasks:

- **Legal Descriptions:** HDR will prepare six additional legal descriptions with exhibits for the needed new ROW, TCEs, and abandonment areas. The exhibits will be shown both with and without aerial backgrounds. HDR will prepare the preliminary legal descriptions for ASLD review and coordination. Upon ASLD approval, HDR will provide sealed legal descriptions for ASLD acquisitions. This task also includes additional research into the existing ROW documentation to assist with the preparation of the legal descriptions.
- **Plan Preparation:** HDR will show the new ROW, TCEs, and abandonment areas on the Geometric Layout Sheets that they have developed for each bridge project for use as ASLD Exhibits while the ROW plans are being prepared. HDR will incorporate review comments from the County and ASLD. HDR's subconsultant ALTA will be tasked with preparing the preliminary ROW plan sheets, final ROW plan sheets, and a sealed record of survey for the Pima County Recorder's Office. This work will include establishing up to 25 survey monuments, utilizing a 1/2-inch rebar with tag, along the east existing ROW at centerline control points, station equations, and vertices.



- **Supplemental Survey:** HDR's subconsultant, ALTA, will be tasked with conducting verification surveys to make sure the ROW monuments that are called out on the plan sheets are in place and are in the correct location for use as reference monuments in the legal descriptions. ALTA will also locate existing fences within the added acquisition areas.
- **Coordination:** HDR will provide additional coordination with ASLD and Pima County to assist the county with obtaining these acquisitions.

If you have questions or need additional information, please let me know.

Sincerely,

HDR Engineering, Inc.

A handwritten signature in blue ink that reads "Ted W. Buell".

Ted W. Buell, PE  
Structures Section Manager  
Project Manager

A handwritten signature in blue ink that reads "Jason Fort".

Jason Fort, PE  
Vice President, Area Manager

geotechnical

## PROPOSAL for PROFESSIONAL SURVEYING SERVICES

survey

Proposal No.: 241122 – Alta Contract Modification #1

environmental

Date: August 8, 2025

 special  
inspections

 Client: HDR, Inc.  
1 S Church Ave, #1400  
Tucson, AZ 85701

 material  
testing

 Project: **Madera Canyon – Alta Contract Modification #1 (Project Contract Amendment #2)**  
**Pima County**

Attention: Ted Buell

Alta Survey, LLC dba Alta Arizona, appreciates the opportunity to provide you with this proposal to provide professional survey services for the Madera Canyon project. Alta will utilize previous survey control and right-of-way information performed by Johnson Brittain/HDR for the Florida Canyon Wash and Medium Wash bridges. The following survey services will be provided by Alta Arizona (hereinafter referred to as “Alta”):

Phoenix

**MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (CTR.4MADBR)**

Tucson

**FEDERAL ID PPM-0(274) D / ADOT TRACS NO. T0541 01D/03D**

Florence

**MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (CTR.4MADFL)**

Sierra Vista

**FEDERAL ID PPM-0(273) D / ADOT TRACS NO. T0540 01D/03D**

### TASK A.7 SURVEY AND MAPPING

**Task A.7.8. Culture Surveys.** ALTA Survey, LLC will verify/locate fences within acquisition areas.

**Task A.7.9. Right-of-Way of Surveys.** ALTA Survey, LLC will perform additional verification surveys to search for controlling survey monuments including right-of-way centerline monuments, controlling right-of-way corners and existing occupation, to confirm the existing right-of-way lines and centerline. Verify the section corner of 10 11 15 & 14. Establish up to twenty-five (25) right-of-way monuments. Prepare new right-of-way plan sheets for new right-of-way, TCEs, and abandonment areas determined to be required to build and maintain the newly widened roadway.

#### **Deliverables:**

- Digital ASCII point files in comma delimited format.
- Field survey information
- Preliminary Right-of-Way Plans (Estimated 8 Sheets).
- Final sealed Right-of-Way Plans (Estimated 8 Sheets).
- Responses to all review comments.

 1800 W Broadway  
Rd  
Suite 5  
Tempe, AZ 85282

**MEDIUM WASH BRIDGE FEE**  
**FLORIDA CANYON WASH BRIDGE FEE**
**\$7,799.84**  
**\$7,799.84**

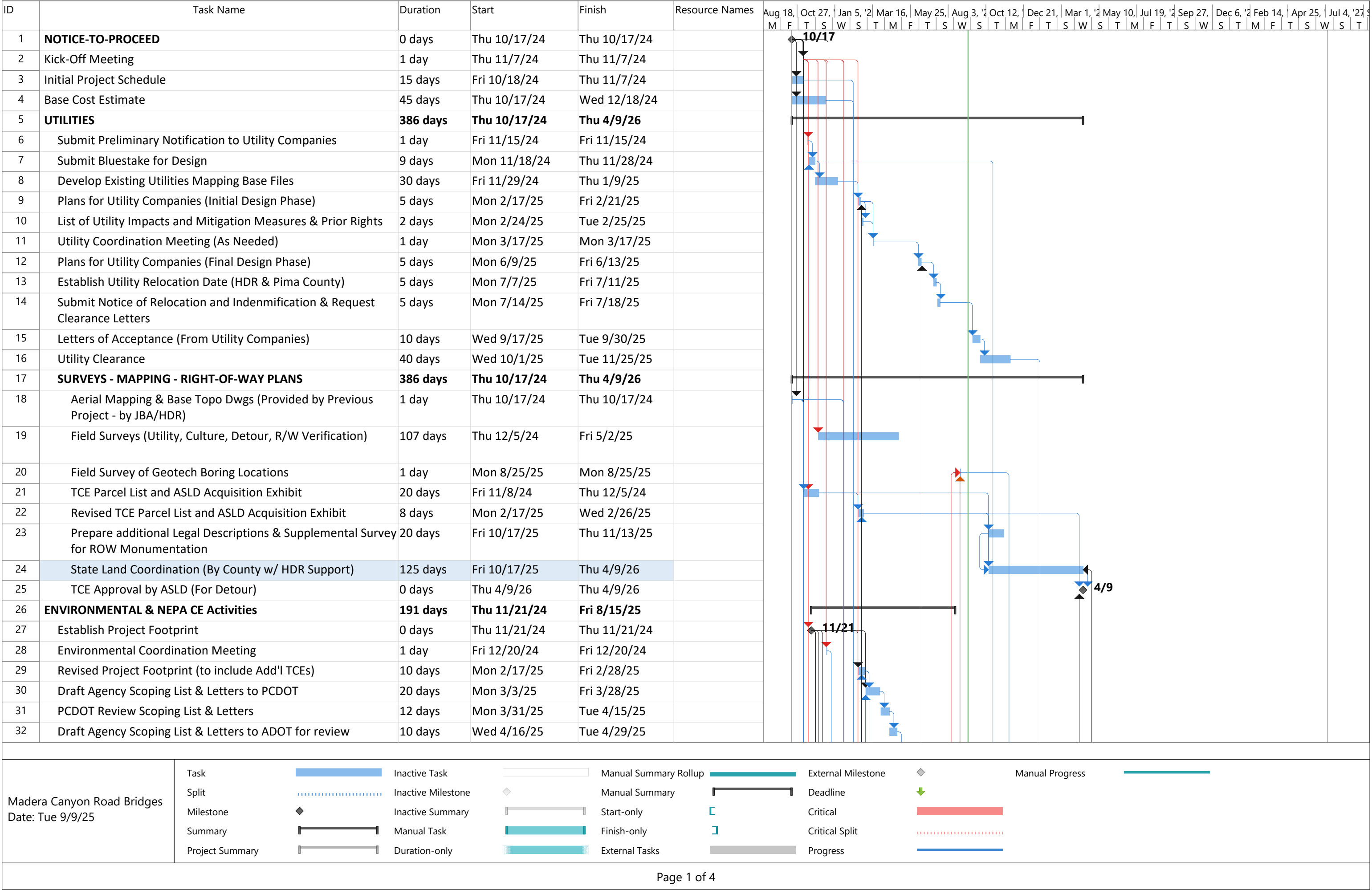
 2025 W Ruthrauff Rd  
Suite 125  
Tucson, AZ 85705

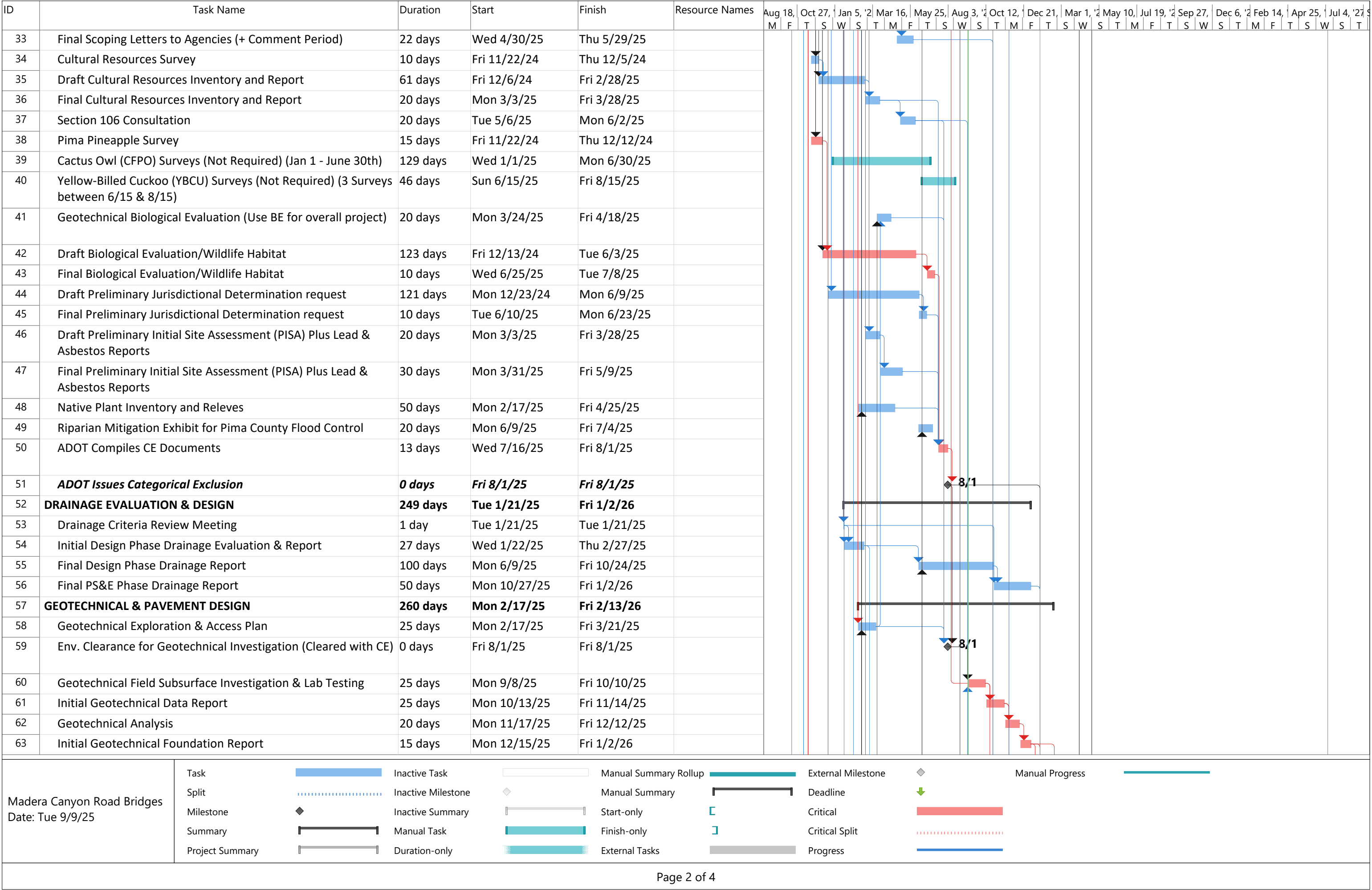
520.398.6651

I hope that this proposal is responsive to your request in terms of services, fee and schedule. If you have any questions or concerns, please contact me at 520.398.6651 or at [patricia.gajda@altaei.com](mailto:patricia.gajda@altaei.com).

 Best regards,  
Alta Arizona

  
 Patricia Gajda, RLS  
 Survey Manager





ID	Task Name	Duration	Start	Finish	Resource Names	Aug 18, '24	Oct 27, '24	Jan 5, '25	Mar 16, '25	May 25, '25	Aug 3, '25	Oct 12, '25	Dec 21, '25	Mar 1, '26	May 10, '26	Jul 19, '26	Sep 27, '26	Dec 6, '26	Feb 14, '27	Apr 25, '27	Jul 4, '27	Sep 12, '27
64	Final Geotechnical Data Report	23 days	Mon 11/17/25	Wed 12/17/25																		
65	Final Geotechnical Foundation Report	30 days	Mon 1/5/26	Fri 2/13/26																		
66	Pavement Design	218 days	Wed 1/22/25	Fri 11/21/25																		
67	Vehicle Classification Tube Counts	5 days	Wed 1/22/25	Tue 1/28/25																		
68	Preliminary Pavement Design Report and ESAL Calculations	10 days	Mon 10/13/25	Fri 10/24/25																		
69	Final Pavement Design Report	20 days	Mon 10/27/25	Fri 11/21/25																		
70	PROJECT ASSESSMENT	228 days	Fri 11/8/24	Tue 9/23/25																		
71	Prepare preliminary roadway plans	40 days	Fri 11/8/24	Thu 1/2/25																		
72	Prepare preliminary detour plans	40 days	Fri 11/8/24	Thu 1/2/25																		
73	Evaluate Bridge Structure Types	40 days	Fri 11/8/24	Thu 1/2/25																		
74	Cost Estimate for PA	31 days	Fri 1/3/25	Fri 2/14/25																		
75	Prepare Initial Project Assessment Report	40 days	Mon 12/23/24	Fri 2/14/25																		
76	Submit Initial PA (to PCDOT)	0 days	Fri 2/14/25	Fri 2/14/25																		
77	PCDOT Review of PA	15 days	Mon 2/17/25	Fri 3/7/25																		
78	Submit Revised Initial PA - for ADOT Review	35 days	Mon 3/10/25	Fri 4/25/25																		
79	ADOT Review of Initial PA	14 days	Mon 4/28/25	Thu 5/15/25																		
80	Submit Final PA	16 days	Fri 5/16/25	Fri 6/6/25																		
81	ADOT Review of Final PA	15 days	Wed 9/3/25	Tue 9/23/25																		
82	ADOT Approval of Final PA	0 days	Tue 9/23/25	Tue 9/23/25																		
83	PREPARATION OF CONSTRUCTION DOCUMENTS	352 days	Fri 11/8/24	Mon 3/16/26																		
84	Initial Design Phase Plans	86 days	Fri 11/8/24	Fri 3/7/25																		
85	Roadway Plans	35 days	Fri 11/8/24	Thu 12/26/24																		
86	Detour Plans	35 days	Fri 11/8/24	Thu 12/26/24																		
87	Bridge Plans	45 days	Fri 11/8/24	Thu 1/9/25																		
88	Submit Initial Design Phase Plans	0 days	Fri 2/14/25	Fri 2/14/25																		
89	PCDOT Review	15 days	Mon 2/17/25	Fri 3/7/25																		
90	Final Design Phase Plans	80 days	Mon 3/10/25	Fri 6/27/25																		
91	Roadway Plans	65 days	Mon 3/10/25	Fri 6/6/25																		
92	Detour Plans	65 days	Mon 3/10/25	Fri 6/6/25																		
93	Bridge Plans	65 days	Mon 3/10/25	Fri 6/6/25																		
94	Drainage Plans	65 days	Mon 3/10/25	Fri 6/6/25																		
95	Pavement Markings and Signing	65 days	Mon 3/10/25	Fri 6/6/25																		
96	Submit Final Design Phase Plans	0 days	Fri 6/6/25	Fri 6/6/25																		
97	PCDOT & ADOT Review	15 days	Mon 6/9/25	Fri 6/27/25																		
98	Initial PS&E Plans	105 days	Mon 6/30/25	Fri 11/21/25																		
99	Roadway Plans	67 days	Mon 6/30/25	Tue 9/30/25																		

Madera Canyon Road Bridges

Date: Tue 9/9/25

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Critical

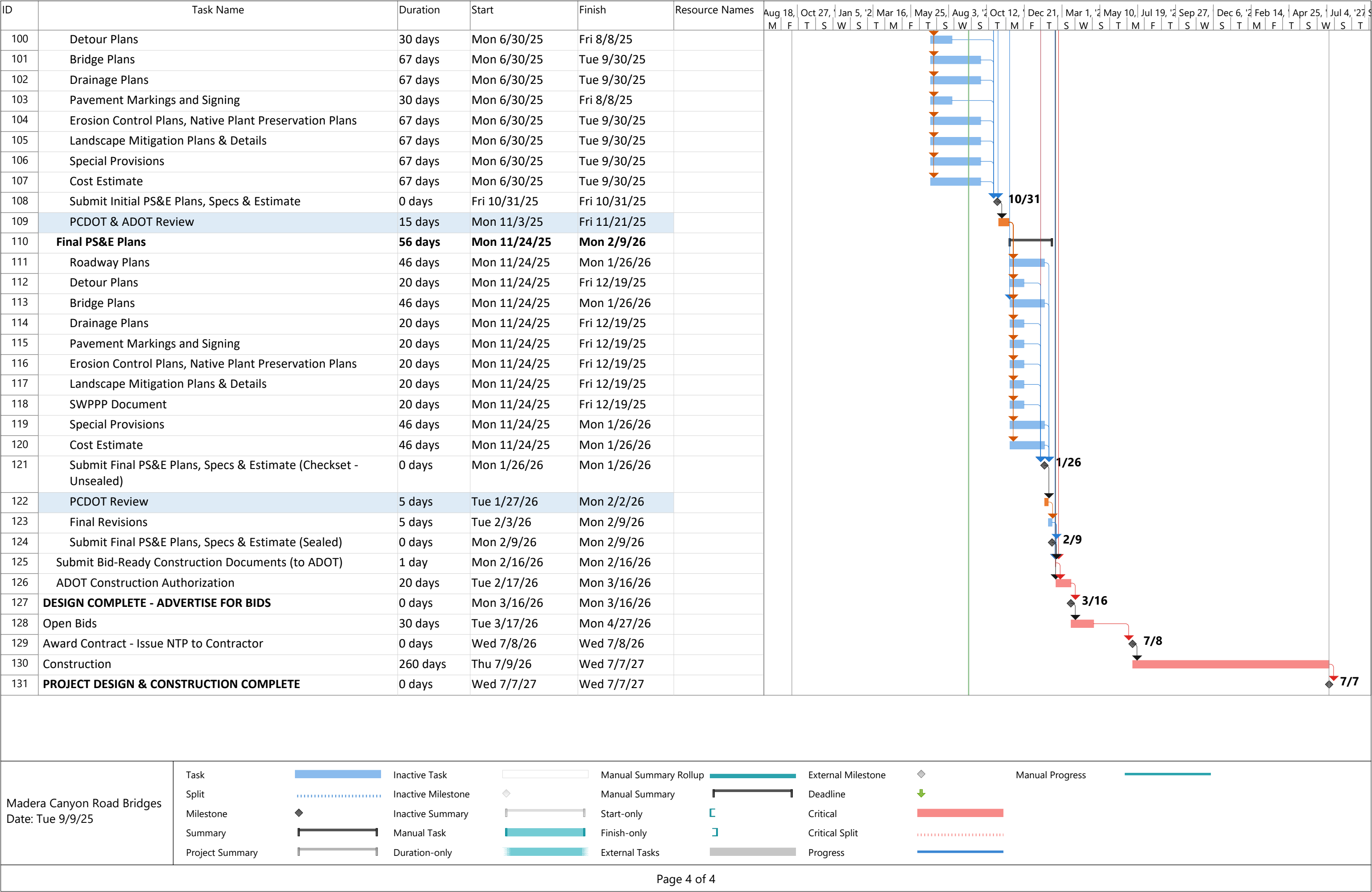
Critical Split

Progress

Manual Progress

Page 3 of 4





**EXHIBIT "B-2" - COMPENSATION SCHEDULE (8 PAGES)**

HDR Engineering, Inc.  
HDR Project Number: 10416569  
August 25, 2025

**PIMA COUNTY DEPARTMENT OF TRANSPORTATION**

**DESIGN ENGINEERING SERVICES FOR  
MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (4MADBR)  
FEDERAL PROJECT NO.: PPM-0(274)D; ADOT TRACS NO.: T0541 03D**

**COST PROPOSAL  
FOR  
CONTRACT AMENDMENT 2**

**ADDITIONAL TASK A - DESIGN SERVICES (ADDITIONAL TCE & ROW DELINEATIONS)****ESTIMATED DIRECT LABOR:**

<b>Staff Classification</b>	<b>Estimated Hours</b>	<b>Hourly Rate</b>	<b>Labor Cost</b>
Project Principal	1.00 \$	122.06 \$	122.06
Project Manager	35.00 \$	93.67 \$	3,278.45
Senior A/E	7.00 \$	103.39 \$	723.73
A/E	59.00 \$	71.89 \$	4,241.51
Junior A/E	6.00 \$	49.58 \$	297.48
CADD Technician	100.00 \$	56.20 \$	5,620.00
Administrative Support III	5.00 \$	58.65 \$	293.25
Administrative Support II	5.00 \$	41.91 \$	209.55
Administrative Support I	1.00 \$	33.51 \$	33.51
<b>Sub-Total (Direct Labor)</b>	<b>219.00</b>	<b>\$</b>	<b>14,819.54</b>

**OVERHEAD & FCCM:**

Overhead Rate 157.94%	<b>Overhead Cost</b>	<b>\$</b>	23,405.98
	<b>Sub-Total (DL+OH)</b>	<b>\$</b>	38,225.52
FCCM 0.4525%	<b>FCCM Cost</b>	<b>\$</b>	67.06
	<b>Sub-Total (DL+OH+FCCM)</b>		<b>\$38,292.58</b>

**PROFIT:**

Profit Rate (Net Fee) 10.00%	<b>Profit (on DL+OH)</b>	<b>\$</b>	3,822.55
	<b>Subtotal:</b>		<b>\$42,115.13</b>

**ESTIMATED DIRECT EXPENSES:**

Reproductions, Printing, & Misc.	<b>\$</b>	32.54
<b>Sub-Total Estimated Direct Expenses</b>	<b>\$</b>	<b>32.54</b>

**OUTSIDE SERVICES AND CONSULTANTS**

(Listed by Item at Actual Cost - NO MARKUP)

Alta Survey, LLC - Field Survey & ROW	<b>COST</b>
	<b>\$</b>
<b>Sub-Total Outside Services and Consultants</b>	<b>\$</b>
	<b>7,799.84</b>

**Total Estimated Cost For Task A (Cost Plus Fixed Fee) \$49,947.51**

Hourly rates listed are average rates per category and are based on the rate schedule established for this contract. Actual hourly rates will be used for billing purposes in accordance with the cost plus fixed fee contract between HDR Engineering and Pima County.

ESTIMATED LABOR HOURS: TASK A - DESIGN SERVICES - CONTRACT AMENDMENT 2 - ADDITIONAL TCE & ROW  
DELINEATIONS MEDIUM WASH BRIDGE (4MADBR)

														SUBCONSULTANT COSTS	
	Project Principal	Project Manager	Senior A/E	A/E	Junior A/E	CADD Technician	Admin. Support III	Admin. Support II	Admin. Support I	Total Hours Per Task	HDR Cost of Task	HDR Direct Expenses	Total HDR Cost of Task	ALTA Survey	Total Cost of Task
August 25, 2025															
TASKS															
TASK A.1 PROJECT MANAGEMENT AND QUALITY CONTROL															
A.1.1 Add'l Project Management & Coordination (Cover Letter Item 1)	1	25	1	4	3	0	5	5	1	45	\$ 10,059.66	\$ 2.56	\$ 10,062.22	\$ -	\$ 10,062.22
Subtotal Task A.1	1	25	1	4	3	0	5	5	1	45	\$ 10,059.66	\$ 2.56	\$ 10,062.22	\$ -	\$ 10,062.22
TASK A.5 UTILITY COORDINATION															
A.5.1 Coordination required for waterlines serving the Santa Rita Ranch (meet with ranch staff, identify & resolve conflicts, find locations for sleeves through approaches, show on plans, details, and include requirements in Special Provisions.) (Cover Letter Item 2)	0	2	1	9	3	1	0	0	0	16	\$ 3,247.34	\$ 2.56	\$ 3,249.90	\$ -	\$ 3,249.90
Subtotal Task A.5	0	2	1	9	3	1	0	0	0	16	\$ 3,247.34	\$ 2.56	\$ 3,249.90	\$ -	\$ 3,249.90
TASK A.15 RIGHT-OF-WAY ACQUISITION SUPPORT - NEW TCE AND RIGHT-OF-WAY DELINEATION (SEE COVER LETTER)															
Legal Descriptions & Reference Maps for 1 area of new right-of-way, 1 area of TCE, 1 area of abandonment (Medium Wash Bridge)	0	2	0	20	0	70	0	0	0	92	\$ 15,798.33	\$ 15.97	\$ 15,814.29	\$ -	\$ 15,814.29
R/W Plan Preparation - Incorporate verification surveys and acquisition areas on R/W plan sheets (Medium Wash & Florida Canyon Wash Bridges by ALTA)	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 4,523.91	\$ 4,523.91
ASLD Exhibit Preparation - Include new ROW and TCEs on the Geometric Layout Sheets	0	1	0	8	0	15	0	0	0	24	\$ 4,296.30	\$ 4.17	\$ 4,300.47	\$ -	\$ 4,300.47
Supplemental Survey - Right-of-Way Verification Surveys (Verify existing monuments shown on plans are in place and in the correct location, Set new monuments) and locate fences (By ALTA)	0	1	0	2	0	5	0	0	0	8	\$ 1,473.36	\$ 1.39	\$ 1,474.75	\$ 3,275.93	\$ 4,750.69
Coordination - Additional Coordination with ASLD and Pima County	0	2	0	12	0	5	0	0	0	19	\$ 3,782.58	\$ 3.30	\$ 3,785.88	\$ -	\$ 3,785.88
Quality Control Review of Documents	0	2	5	4	0	4	0	0	0	15	\$ 3,457.56	\$ 2.60	\$ 3,460.16	\$ -	\$ 3,460.16
Subtotal Task A.15	0	8	5	46	0	99	0	0	0	158	\$ 28,808.13	\$ 27.42	\$ 28,835.55	\$ 7,799.84	\$ 36,635.39
TOTAL TASKS A.1, A.5, & A.15	1	35	7	59	6	100	5	5	1	219	\$ 42,115.13	\$ 32.54	\$ 42,147.67	\$ 7,799.84	\$ 49,947.51

**Reproduction & Plotting**

	Number	Unit	Unit Cost	Cost
<b>Task A.1 Project Management and Quality Control</b>				
8 1/2" x 11" prints B&W	20	each	\$ 0.045	\$ 0.90
8 1/2" x 11" prints color	20	each	\$ 0.135	\$ 2.70
11" x17" prints B&W	20	each	\$ 0.076	\$ 1.52
				\$ 5.12
<b>Task A.5 Utility Coordination</b>				
8 1/2" x 11" prints B&W	20	each	\$ 0.045	\$ 0.90
8 1/2" x 11" prints color	20	each	\$ 0.135	\$ 2.70
11" x17" prints B&W	20	each	\$ 0.076	\$ 1.52
				\$ 5.12
<b>Task A.15 Right-of-Way Acquisition Support</b>				
Roll Plots (Color Bond) (2'x8') 2 Total	-	SF	\$ 0.900	\$ -
8 1/2" x 11" prints B&W	30	each	\$ 0.045	\$ 1.35
8 1/2" x 11" prints color	30	each	\$ 0.400	\$ 12.00
11" x17" prints B&W	30	each	\$ 0.550	\$ 16.50
				\$ 29.84
Miscellaneous printing				\$ 25.00
<b>Total Reproduction &amp; Plotting</b>				<b>\$ 65.08</b>

**Total Direct Expenses: \$ 65.08**

**Total Estimated Cost For Task A (Medium Wash Bridge (4MADBR) \$ 32.54**  
**Total Est. Cost For Task A (Florida Canyon Wash Bridge (4MADFL) \$ 32.54**



**PIMA COUNTY DEPARTMENT OF TRANSPORTATION**

**DESIGN ENGINEERING SERVICES FOR  
MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (4MADBR)  
FEDERAL PROJECT NO.: PPM-0(274)D; ADOT TRACS NO.: T0541 03D  
MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (4MADFL)  
FEDERAL PROJECT NO.: PPM-0(273)D; ADOT TRACS NO.: T0540 03D**

**COST PROPOSAL  
FOR  
CONTRACT AMENDMENT NO. 2 (ALTA CONTRACT MOD. 1)  
ADDITIONAL TASK A.7 - SURVEY AND MAPPING**

**ESTIMATED DIRECT LABOR:**

Staff Classification	Estimated Hours	Hourly Rate	Labor Cost
Registered Land Surveyor	22 \$	62.12 \$	1,366.64
Survey Crew 2-Person	38 \$	60.20 \$	2,287.60
CAD Tech	48 \$	35.10 \$	1,684.80
Clerical/Admin	2 \$	28.00 \$	56.00
<b>Sub-Total (Direct Labor)</b>	<b>110</b>	<b>\$</b>	<b>5,395.04</b>

**OVERHEAD & FCCM:**

Overhead Rate 167.73%	<b>Overhead Cost</b>	<b>\$</b>	<b>9,049.10</b>
	<b>Sub-Total (DL+OH)</b>	<b>\$</b>	<b>14,444.14</b>
FCCM 0.0000%	<b>FCCM Cost</b>	<b>\$</b>	<b>-</b>

**Sub-Total (DL+OH+FCCM) \$14,444.14**

**PROFIT:**

Profit Rate (Net Fee) 8.00%	<b>Profit (on DL+OH)</b>	<b>\$</b>	<b>1,155.53</b>
	<b>Subtotal:</b>		<b>\$15,599.67</b>

**ESTIMATED DIRECT EXPENSES:**

None	<b>\$</b>	<b>-</b>
<b>Sub-Total Estimated Direct Expenses</b>	<b>\$</b>	<b>-</b>

**OUTSIDE SERVICES AND CONSULTANTS**

(Listed by Item at Actual Cost - NO MARKUP)

None	<b>\$</b>	<b>-</b>
<b>Sub-Total Outside Services and Consultants</b>	<b>\$</b>	<b>-</b>

**Total Estimated Cost For Task A.7 (Cost Plus Fixed Fee) (Includes Both Projects) \$15,599.67**

<b>Total Est. Cost For Add'l Task A.7 (Medium Wash Bridge (4MADBR) (Evenly Split between both projects)</b>	<b>\$</b>	<b>7,799.84</b>
<b>Total Est. Cost For Add'l Task A.7 (Florida Canyon Bridge (4MADFL) (Evenly Split between both projects)</b>	<b>\$</b>	<b>7,799.84</b>

HDR Engineering, Inc.  
HDR Project Number: 10416569  
August 25, 2025

**PIMA COUNTY DEPARTMENT OF TRANSPORTATION**

**DESIGN ENGINEERING SERVICES FOR  
MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (4MADFL)  
FEDERAL PROJECT NO.: PPM-0(273)D; ADOT TRACS NO.: T0540 03D**

**COST PROPOSAL  
FOR  
CONTRACT AMENDMENT 2**

**ADDITIONAL TASK A - DESIGN SERVICES (ADDITIONAL TCE & ROW DELINEATIONS)**

**ESTIMATED DIRECT LABOR:**

<b>Staff Classification</b>	<b>Estimated Hours</b>	<b>Hourly Rate</b>	<b>Labor Cost</b>
Project Principal	1 \$	122.0600 \$	122.0600
Project Manager	35 \$	93.6700 \$	3,278.4500
Senior A/E	7 \$	103.3900 \$	723.7300
A/E	59 \$	71.8900 \$	4,241.5100
Junior A/E	6 \$	49.5800 \$	297.4800
CADD Technician	100 \$	56.2000 \$	5,620.0000
Administrative Support III	5 \$	58.6500 \$	293.2500
Administrative Support II	5 \$	41.9100 \$	209.5500
Administrative Support I	1 \$	33.5100 \$	33.5100
<b>Sub-Total (Direct Labor)</b>	<b>219</b>	<b>\$</b>	<b>14,819.5400</b>

**OVERHEAD & FCCM:**

Overhead Rate 157.94%	<b>Overhead Cost</b>	<b>\$</b>	23,405.98
	<b>Sub-Total (DL+OH)</b>	<b>\$</b>	38,225.52
FCCM 0.4525%	<b>FCCM Cost</b>	<b>\$</b>	67.06
	<b>Sub-Total (DL+OH+FCCM)</b>		<b>\$38,292.58</b>

**PROFIT:**

Profit Rate (Net Fee) 10.00%	<b>Profit (on DL+OH)</b>	<b>\$</b>	3,822.55
	<b>Subtotal:</b>		<b>\$42,115.13</b>

**ESTIMATED DIRECT EXPENSES:**

Reproductions, Printing, & Misc.	<b>\$</b>	32.54
<b>Sub-Total Estimated Direct Expenses</b>	<b>\$</b>	<b>32.54</b>

**OUTSIDE SERVICES AND CONSULTANTS**

(Listed by Item at Actual Cost - NO MARKUP)

Alta Survey, LLC - Field Survey & ROW	<b>COST</b>
	<b>\$</b>
<b>Sub-Total Outside Services and Consultants</b>	<b>\$</b>
	<b>7,799.84</b>

**Total Estimated Cost For Task A (Cost Plus Fixed Fee) \$49,947.51**

Hourly rates listed are average rates per category and are based on the rate schedule established for this contract. Actual hourly rates will be used for billing purposes in accordance with the cost plus fixed fee contract between HDR Engineering and Pima County.



ESTIMATED LABOR HOURS: TASK A - DESIGN SERVICES - CONTRACT AMENDMENT 2 - ADDITIONAL TCE & ROW DELINEATIONS - FLORIDA CANYON WASH BRIDGE (4MADFL)

											SUBCONSULTANT COSTS				
	Project Principal	Project Manager	Senior A/E	A/E	Junior A/E	CADD Technician	Admin. Support III	Admin. Support II	Admin. Support I	Total Hours Per Task	HDR Cost of Task	HDR Direct Expenses	Total HDR Cost of Task	ALTA Survey	Total Cost of Task
August 25, 2025															
TASKS															
TASK A.1 PROJECT MANAGEMENT AND QUALITY CONTROL															
A.1.1 Add'l Project Management & Coordination (Cover Letter Item 1)	1	25	1	4	3	0	5	5	1	45	\$ 10,059.66	\$ 2.56	\$ 10,062.22	\$ -	\$ 10,062.22
Subtotal Task A.1	1	25	1	4	3	0	5	5	1	45	\$ 10,059.66	\$ 2.56	\$ 10,062.22	\$ -	\$ 10,062.22
TASK A.5 UTILITY COORDINATION															
A.5.1 Coordination required for waterlines serving the Santa Rita Ranch (meet with ranch staff, identify & resolve conflicts, find locations for sleeves through approaches, show on plans, details, and include requirements in Special Provisions.) (Cover Letter Item 2)	0	2	1	9	3	1	0	0	0	16	\$ 3,247.34	\$ 2.56	\$ 3,249.90	\$ -	\$ 3,249.90
Subtotal Task A.5	0	2	1	9	3	1	0	0	0	16	\$ 3,247.34	\$ 2.56	\$ 3,249.90	\$ -	\$ 3,249.90
TASK A.15 RIGHT-OF-WAY ACQUISITION SUPPORT - NEW TCE AND RIGHT-OF-WAY DELINEATION (SEE COVER LETTER)															
Legal Descriptions & Reference Maps for 2 areas of TCE, 1 area of abandonment (Florida Canyon Wash Bridge)	0	2	0	20	0	70	0	0	0	92	\$ 15,798.33	\$ 15.97	\$ 15,814.29	\$ -	\$ 15,814.29
R/W Plan Preparation - Incorporate verification surveys and acquisition areas on R/W plan sheets (Medium Wash & Florida Canyon Wash Bridges by ALTA)	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ 4,523.91	\$ 4,523.91
ASLD Exhibit Preparation - Include new ROW and TCEs on the Geometric Layout Sheets	0	1	0	8	0	15	0	0	0	24	\$ 4,296.30	\$ 4.17	\$ 4,300.47	\$ -	\$ 4,300.47
Supplemental Survey - Right-of-Way Verification Surveys (Verify existing monuments shown on plans are in place and in the correct location, Set new monuments) and locate fences (By ALTA)	0	1	0	2	0	5	0	0	0	8	\$ 1,473.36	\$ 1.39	\$ 1,474.75	\$ 3,275.93	\$ 4,750.69
Coordination - Additional Coordination with ASLD and Pima County	0	2	0	12	0	5	0	0	0	19	\$ 3,782.58	\$ 3.30	\$ 3,785.88	\$ -	\$ 3,785.88
Quality Control Review of Documents	0	2	5	4	0	4	0	0	0	15	\$ 3,457.56	\$ 2.60	\$ 3,460.16	\$ -	\$ 3,460.16
Subtotal Task A.15	0	8	5	46	0	99	0	0	0	158	\$ 28,808.13	\$ 27.42	\$ 28,835.55	\$ 7,799.84	\$ 36,635.39
TOTAL TASKS A.1, A.5, & A.15	1	35	7	59	6	100	5	5	1	219	\$ 42,115.13	\$ 32.54	\$ 42,147.67	\$ 7,799.84	\$ 49,947.51

**Reproduction & Plotting**

	Number	Unit	Unit Cost	Cost
<b>Task A.1 Project Management and Quality Control</b>				
8 1/2" x 11" prints B&W	20	each	\$ 0.045	\$ 0.90
8 1/2" x 11" prints color	20	each	\$ 0.135	\$ 2.70
11" x17" prints B&W	20	each	\$ 0.076	\$ 1.52
				\$ 5.12
<b>Task A.5 Utility Coordination</b>				
8 1/2" x 11" prints B&W	20	each	\$ 0.045	\$ 0.90
8 1/2" x 11" prints color	20	each	\$ 0.135	\$ 2.70
11" x17" prints B&W	20	each	\$ 0.076	\$ 1.52
				\$ 5.12
<b>Task A.15 Right-of-Way Acquisition Support</b>				
Roll Plots (Color Bond) (2'x8') 2 Total	-	SF	\$ 0.900	\$ -
8 1/2" x 11" prints B&W	30	each	\$ 0.045	\$ 1.35
8 1/2" x 11" prints color	30	each	\$ 0.400	\$ 12.00
11" x17" prints B&W	30	each	\$ 0.550	\$ 16.50
				\$ 29.84
Miscellaneous printing				\$ 25.00
<b>Total Reproduction &amp; Plotting</b>				<b>\$ 65.08</b>

**Total Direct Expenses: \$ 65.08**

**Total Estimated Cost For Task A (Medium Wash Bridge (4MADBR) \$ 32.54**  
**Total Est. Cost For Task A (Florida Canyon Wash Bridge (4MADFL) \$ 32.54**



**PIMA COUNTY DEPARTMENT OF TRANSPORTATION**

**DESIGN ENGINEERING SERVICES FOR  
MADERA CANYON, MEDIUM WASH BRIDGE REPLACEMENT (4MADBR)  
FEDERAL PROJECT NO.: PPM-0(274)D; ADOT TRACS NO.: T0541 03D  
MADERA CANYON, FLORIDA CANYON WASH BRIDGE REPLACEMENT (4MADFL)  
FEDERAL PROJECT NO.: PPM-0(273)D; ADOT TRACS NO.: T0540 03D**

**COST PROPOSAL  
FOR  
CONTRACT AMENDMENT NO. 2 (ALTA CONTRACT MOD. 1)  
ADDITIONAL TASK A.7 - SURVEY AND MAPPING**

**ESTIMATED DIRECT LABOR:**

Staff Classification	Estimated Hours	Hourly Rate	Labor Cost
Registered Land Surveyor	22 \$	62.12 \$	1,366.64
Survey Crew 2-Person	38 \$	60.20 \$	2,287.60
CAD Tech	48 \$	35.10 \$	1,684.80
Clerical/Admin	2 \$	28.00 \$	56.00
<b>Sub-Total (Direct Labor)</b>	<b>110</b>	<b>\$</b>	<b>5,395.04</b>

**OVERHEAD & FCCM:**

Overhead Rate 167.73%	<b>Overhead Cost</b>	<b>\$</b>	<b>9,049.10</b>
	<b>Sub-Total (DL+OH)</b>	<b>\$</b>	<b>14,444.14</b>
FCCM 0.0000%	<b>FCCM Cost</b>	<b>\$</b>	<b>-</b>

**Sub-Total (DL+OH+FCCM) \$14,444.14**

**PROFIT:**

Profit Rate (Net Fee) 8.00%	<b>Profit (on DL+OH)</b>	<b>\$</b>	<b>1,155.53</b>
	<b>Subtotal:</b>		<b>\$15,599.67</b>

**ESTIMATED DIRECT EXPENSES:**

None	<b>\$</b>	<b>-</b>
<b>Sub-Total Estimated Direct Expenses</b>	<b>\$</b>	<b>-</b>

**OUTSIDE SERVICES AND CONSULTANTS**

(Listed by Item at Actual Cost - NO MARKUP)

None		\$	-
	<b>Sub-Total Outside Services and Consultants</b>	\$	-

**Total Estimated Cost For Task A.7 (Cost Plus Fixed Fee) (Includes Both Projects) \$15,599.67**

<b>Total Est. Cost For Add'l Task A.7 (Medium Wash Bridge (4MADBR) (Evenly Split between both projects)</b>	<b>\$</b>	<b>7,799.84</b>
<b>Total Est. Cost For Add'l Task A.7 (Florida Canyon Bridge (4MADFL) (Evenly Split between both projects)</b>	<b>\$</b>	<b>7,799.84</b>

**END OF EXHIBIT "B-2" - COMPENSATION SCHEDULE**